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PPLICATION NO.	F	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/711,021	(	08/18/2004	Wen-Yuan Guo	TOPP0027USA 5020	
27765	7590	07/11/2006		EXAMINER	
		INTELLECTUAL	WON, BUMSUK		
P.O. BOX 50 MERRIFIEL		22116		ART UNIT PAPER NUMBE	
				2879	
			DATE MAILED: 07/11/2006	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·		Application No.	Applicant(s)					
		10/711,021	GUO ET AL.					
	Office Action Summary	Examiner	Art Unit					
l		Bumsuk Won	2879					
Period fo	- The MAILING DATE of this communication apport	pears on the cover sheet with the c	correspondence address -					
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING Dansions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tire will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).					
Status								
1)⊠	Responsive to communication(s) filed on 18 A	ugust 2004.						
2a) <u></u>	This action is <b>FINAL</b> . 2b)⊠ This	action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.					
Disposit	ion of Claims							
. 4)⊠ Claim(s) <u>1-21</u> is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5)⊠ Claim(s) <u>1-10</u> is/are allowed.								
6)⊠	6)⊠ Claim(s) 11-21 is/are rejected.							
7)	Claim(s) is/are objected to.							
8)	Claim(s) are subject to restriction and/o	r election requirement.						
Applicat	ion Papers							
9) 又	The specification is objected to by the Examine	er.						
	The drawing(s) filed on is/are: a) acc		Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
,	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority (	ınder 35 U.S.C. § 119							
·	Acknowledgment is made of a claim for foreign ☑ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a	ı)-(d) or (f).					
1.⊠ Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the prio	rity documents have been receive	ed in this National Stage					
	application from the International Bureau	u (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	ot(s)							
	ce of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail D	•					
	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		Patent Application (PTO-152)					
Paper No(s)/Mail Date 6)  Other:								

#### **DETAILED ACTION**

### **Specification**

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed. The following title is suggested:

Organic light emitting diode display having red, blue, and green colors emitted using heating circuit structure.

### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 11-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 11 recites the limitation "the first conductive wire" and "the second conductive wire" in last wherein clause. There is insufficient antecedent basis for this limitation in the claim. For examining purpose, "a first conductive wire and a second conductive wire not connected to each other formed on the substrate" will be added before the wherein clause.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claim 21 is rejected under 35 U.S.C. 102(b) as being anticipated by Koyama (2002/0047581).

Regarding claim 21, Koyama discloses an OLED display (fig 2) comprising: a substrate (not shown); pixel areas (100) being defined on the substrate; OLEDs (106) corresponding to each of the pixel areas designated to emit a light beam of a predetermined color (it is an inherent feature of EL element to emit a color, paragraphs 26 and 189 discloses colored light is emitted from the EL elements); and a heating circuit (TFTs increase temperature when the display is in operation, 102, 103, 104, 105) for heating OLEDs. The color emitted when the EL elements are being heated due to temperature increase in the TFTs is different from the color emitted when the EL elements are not being heated (paras 26 and 189). Therefore the predetermined color when unheated is different from the color when heated with heating circuit.

Also, the Examiner notes that the claim limitation of the phrase "so as to enable ... a color different from the predetermined color" in the last three lines of the claim is drawn to a functional limitation which is incidental to the claimed apparatus. It is well established that a claimed apparatus cannot be distinguished over the prior art by a functional limitation.

Consequently, absent a showing of an unobvious difference between the claimed product and the prior art, the subject functional claim limitation is not afforded patentable weight (MPEP 2114).

# Allowable Subject Matter

Claims 1-20 are allowed. The following is an examiner's statement of reasons for allowance:

Regarding independent claim 1, the prior art of record does not teach or suggest the invention of an organic light emitting diode display having a heating circuit structure having a

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first and second conductive lines not connected each other being connected to a first and second heating wires respectively through contact holes in an isolation layer, and the first and second heating wires being electrically connected to a ground electrode, along with other claimed limitations. Claims 2-10 are allowed due to claim dependency.

Claim 11 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Regarding independent claim 11, the prior art of record does not teach or suggest the invention of an organic light emitting diode display having first and second heating wires covering portions of pixel areas, TFT being disposed on each of the heating wires, isolation layer covering the TFT and heating wires, the first heating wires being electrically connected to the first conductive wire and the corresponding OLED generate green light, and the second heating wires being electrically connected to the second conductive wire and the corresponding OLED generate red light, along with other claimed limitations.

Claims 12-20 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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### Contact information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bumsuk Won whose telephone number is 571-272-2713. The examiner can normally be reached on Monday through Friday, 8:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar Patel can be reached on 571-272-2457. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Bumsuk Won Patent Examiner

JOSEPH WILLIAMS RIMARY EXAMINER